

33. (AS ONCE AMENDED) A mobile station to which a connection setup is to be provided in a radio communication system having at least one base station, and wherein frequency channels are recurrently offered for a random access in an upstream direction for the mobile station, comprising:

a measuring unit for measuring a reception power of a signal sent from the base station in a downstream direction on a broadcast control channel when the mobile station requests a connection setup;

a transmission power setting unit which, dependent on measured reception power, sends an access radio block to the base station;

a control panel for triggering the random access; said measuring unit comprising a signal processing unit for measuring the reception power of the signal sent in the downstream direction from the base station and for generating the access radio block; and

said transmission power setting unit comprising a control unit for setting the transmission power for the transmission of the access radio block to the base station dependent on the measured reception power.

34. (AS ONCE AMENDED) A base station in a radio communication system wherein a connection setup occurs from mobile stations, and wherein the mobile station that requests a connection setup measures a reception power of a signal sent from the base station in a downstream direction, and wherein the mobile station sets a transmission power dependent on the measured reception power for sending an access radio block to the base station, comprising:

a unit for recurrently offering frequency channels for a random access in an upstream direction for the mobile stations;

a signal processing unit for generating the signal to be transmitted in the downstream direction on a broadcast control channel; and

a control unit for setting a transmission power for sending the signal to the mobile station that requests the connection setup.